Pregnancy Test Further Reading

Further Reading

- The Citation Classic: Judith L. Vaitukaitis, Glenn D. Braunstein, Griff T. Ross, "A radioimmunoassay which specifically measures human chorionic
 gonadotropin in the presence of human luteinizing hormone," American Journal of Obstetrics and Gynecology 113:6, pp 751-758, July 15, 1972.
 (Citation Classic; Current Contents/Clinical Practice 11:24, 1983).
 - Abstract: With antiserum to the beta-subunit of human chorionic gonadotropin (hCG), we have developed a radioimmunoassay which selectively measures hCG in samples containing both human pituitary luteinizing hormone (HLH) and hCG. High HLH levels observed in samples obtained at the midcycle peak or from castrate patients do not cause significant inhibition in the specific hCG radioimmunoassay. The sensitivity of the assay is sufficient for distinguishing hCG from follicular and luteal phase HLH levels. This specific hCG radioimmunoassay is ideal for following serum hCG levels in patients undergoing chemotherapy for hCG-secreting tumors as well as for follow-up of patients after termination of molar pregnancies. In addition, the sensitivity of the assay will permit earlier diagnosis of pregnancy which, in turn, would permit earlier therapeutic intervention if desired.
- For more on the scientific basis for various urine pregnancy tests throughout human history, see J. Burstein and G.D. Braunstein, "Urine pregnancy tests from antiquity to the present," Early Pregnancy: Biology and Medicine 1 (1995) pp. 288-296. Several entries in the "Timeline of Pregnancy Tests" were based on this material.

A radioimmunoassay which specifically measures human chorionic gonadotropin in the presence of human luteinizing hormone

JUDITH L. VAITUKAITIS GLENN D. BRAUNSTEIN GRIFF T. ROSS Bethele, Merjeel

With until even to the freebank of human chariosis genal otropic (NCG), we have developed a radiomenon surpriss which identicely measures NCG in samples containing both human pituitary betwining hormone (NLH) and NCG Nigh HIH liveds observed in samples obtained as the midesyde peak or from eastwise potential de and cours significant inhibition in the specific NCG radiomenousmy. The sensitivity of the samp is reflected for desinquishing NCG from followine and lated place ILM levels. This specific NCG radiomenousmy is ideal for following series NCG submitted for the significant permitted for the sensitivity of the following permitted in patients undergoing charmotherapy for NCG contribute tumors as under the following of private after termination of moles programies. In addition, the sensitivity of TCE away will permit earlier degreeds of pregnancy which, in turn, would permit earlier through the intersection of derived.

ANTIBERA generated to the flowbunit of human chorionic genudotropin (HCG) discriminate between human pituitary luteining homene (HLH) and HCG, *** while most of those produced following instrumination with intact hormone do not. One of those sera produced following a single immuniting dose of 50 µg of the flowbunit of HCG was used to develop a radiointmunoassay which specifically measures HCG in plasma samples containing both HLH and HCG. The development of that radioinmunoassay and some application which re-

From the Reproduction Research Breath, National Institute of Child Health and Human Development, National Institutes of Health. Resolved for publication December 23, 1921.

Accepted for publication March 5, 1972. Repoint requests: Dr. J. Valenkable, Dept. of Health, Education, and Valgace, Public Health Service, National Institutes of Health, Bethrada, Maryland 20014. flect the potential clinical usefulness of the specific HOG away are discussed herein.

Material and methods

Antigens. Highly purified HCG (Rousell) and the #subunit of HCG (CR-1003) were peopared by Drs. Robert Canfield and Francis Moegan.* The highly purified HCG preparation was bioassayed by the ventral prostate weight assay.* and immunoassaye by a double-authody-immunoassay procedure outlined below. The Second International Standard for HCG, generously provided by Dr. Derek Bangham (World Health Oeganization), served as reference preparation for those assays. Highly purified human pituitary bormones—HLH (LER 960 and LER 1417), human pituitary foi-lick-stimulating bormone HFSH (LER 1966), and HTSH (human thyrotropin, Pierce Fraction 4), and a cruder extract, LER 907, containing both HFSH and HLH —were provided by the National Pituitary

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- More information on the history of research on female reproductive hormones can be found in Vern Bullough, Science in the Bedroom: A History of Sex Research, Basic Books, 1994. See especially pp. 126-132. See also Ann Rudinow Saetnan, Nelly Oudshoorn, and Marta Kirejczyk, eds., Bodies of Technology: Women's Involvement with Reproductive Medicine, Ohio State University Press, 2000.
- For more on the medical profession's increased "efforts to establish itself as the source of maternity care for the middle class," see the entry on Pregnancy Testing in Barbara Katz Rothman, ed. The Encyclopedia of Childbearing. Holt & Co., 1993, pp. 327-328.
- On medical tests see: Trevor Pinch, "Testing—1,2,3 Testing: Toward a Sociology of Testing." Science, Technology and Human Values (Winter, 1993) pp. 25-41.
- A description of the testing that led to FDA approval of the first home pregnancy tests can be found in: "Home Pregnancy Test Simple to Use, Reasonably Accurate, Especially if Result is Positive," Family Planning Perspectives 11:3 (May/June 1979) pp. 190-191.

 The Power House Museum of Australia features an online exhibit on the history and material culture of menstruation at: http://www.
- powerhousemuseum.com/rags/
- Many popular women's magazines have featured articles about women's relationships with OB/GYNs and pregnancy testing in the past few decades. See for example:

 - Joann Ellison Rodgers, "Who's Running the Show—Gynecologists or Patients?" Mademoiselle (November 1978), pp. 74-75.
 Joel Gurin, "Home Medical Tests: What Works, What Doesn't, What's Right for You." Glamour (September 1988), pp. 142-145.
 - Cynthia Hacinli, "All Pregnancy Tests are Not Equal," Mademoiselle, (March 1989), p.142.

Acknowledgements